

N. MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 1/14-2/14/72		MAR 16 1972	
Company EL PASO NATURAL GAS COMPANY				Connection EL PASO NATURAL GAS COMPANY		D. C. C.	
Pool <i>West Sand Series Atoka</i> Wildcat				Formation Atoka		Unit ARTISTIC OFFICE	
Completion Date 8-8-71		Total Depth 15000		Plug Back TD 14,045		Elevation 3358 GL	
Farm or Lease Name Arco State		Well No. 1		Unit K		Sec. Twp. Rge. 16 23S 31E	
Csg. Size 7 5/8	Wt. 39.0	d 6.500	Set At 14,153	Perforations: From 13,880 To 13,890			
Tbg. Size 3 1/2	Wt. 9.3	d 2.992	Set At 12,400	Perforations: From Open To End			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 12,400		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 196		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L * 12,424	H 12,424	Gg .612	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run X
						Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							4718	74			14 days
1.	4	x	1.500	757	7.29	35	4050				24 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	74.93		1.025	1.278	1.091	1,161
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.15	495	1.37	.840	Dry		.612	X X X X X X X X	671	362
2										
3										
4										
5										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	4731.2	22384.3	4063.8	16514.5	3.813	2.692
2						
3						
4						
5						

NO.	AOF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	3.126	3.126
2		
3		
4		
5		

Absolute Open Flow	3,126	Mcfd @ 15.025	Angle of Slope	53.5	Slope, n	.740
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Remarks: ADJUSTED A.O.F. FROM 1 POINT FLOW TEST	
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Approved By Commission:	Conducted By: J. B. Murray R. Reston, R. Kiker	Calculated By: J. B. Murray	Checked By:
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